

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
CHANGES FROM FY 2002 BUDGET ESTIMATE TO FY 2002 CURRENT ESTIMATE

	NASA <u>Request</u>	Appropriation <u>Changes*</u>	NASA <u>Changes</u>	Emergency <u>Supplemental*</u>	Initial <u>Op Plan</u>
<u>SUMMARY</u>					
<u>HUMAN SPACE FLIGHT</u>	<u>7,296.0</u>	<u>-383.6</u>	<u>-158.3</u>	<u>76.0</u>	<u>6,830.1</u>
INTERNATIONAL SPACE STATION	2,087.4	-359.6	-6.1		1,721.7
SPACE SHUTTLE	3,283.8	-5.0	-6.0		3,272.8
PAYLOAD & ELV SUPPORT	91.3				91.3
HEDS INVESTMENTS & SUPPORT	1,303.5	-19.0	-146.0	76.0	1,214.5
SPACE OPERATIONS (SOMO)	482.2				482.2
SAFETY, MISSION ASSURANCE & ENG'G	47.8		-0.2		47.6
 <u>SCIENCE, AERONAUTICS & TECH</u>	 <u>7,191.7</u>	 <u>665.4</u>	 <u>158.2</u>	 <u>32.5</u>	 <u>8,047.9</u>
SPACE SCIENCE	2,786.4	62.6	10.7	7.4	2,867.1
BIOLOGICAL & PHYSICAL RESEARCH	360.9	357.5	97.2	4.5	820.0
EARTH SCIENCE	1,515.0	62.1	44.1	4.5	1,625.7
AEROSPACE TECHNOLOGY	2,375.7	109.6	6.3	16.1	2,507.7
ACADEMIC PROGRAMS	153.7	73.6			227.3
 <u>INSPECTOR GENERAL</u>	 <u>23.7</u>				 <u>23.7</u>
 TOTAL NASA	 14,511.4	 281.8	 0.0	 108.5	 14,901.7

*Reflects appropriations levels included for NASA in the FY 2002 VA-HUD-Independent Agencies Appropriations Act (P.L. 107-73) and direction included in the Conference Report (House Report 107-282) accompanying H.R. 2620.

**Reflects appropriations levels included for NASA as part of the FY 2002 Defense Appropriations Act (P.L. 107-117) and direction included in the Conference Report (House Report 107-350) accompanying H.R. 3338.

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

CHANGES FROM FY 2002 BUDGET ESTIMATE TO FY 2002 CURRENT ESTIMATE

<u>PROGRAM DETAIL</u>	<u>NASA</u> <u>Request</u>	<u>Appropriation</u> <u>Changes*</u>	<u>NASA</u> <u>Changes</u>	<u>Emergency</u> <u>Supplemental*</u> <u>-</u>	<u>Initial</u> <u>Op Plan</u>
<u>HUMAN SPACE FLIGHT</u>	<u>7,296.0</u>	<u>-383.6</u>	<u>-158.3</u>	<u>76.0</u>	<u>6,830.1</u>
<u>International Space Station</u>	<u>2,087.4</u>	<u>-359.6</u>	<u>-6.1</u>		<u>1,721.7</u>
Vehicle	399.1	-30.0			369.1
Operations Capability	1,394.7	-76.0	-6.1		1,312.6
Research	283.6				0.0
Crew Return Vehicle	10.0	30.0			40.0
<u>Space Shuttle</u>	<u>3,283.8</u>	<u>-5.0</u>	<u>-6.0</u>		<u>3,272.8</u>
Flight Hardware	2,067.2	-30.0	-9.1		2,028.1
Ground Operations	604.1		6.8		610.9
Flight Operations	271.0		-33.0		238.0
Program Integration	341.5	25.0	29.3		395.8
<u>Payload & ELV Support</u>	<u>91.3</u>				<u>91.3</u>
Payload Carriers & Support	57.0				57.0
ELV Mission Support	34.3				34.3
<u>HEDS Investments & Support</u>	<u>1,303.5</u>	<u>-19.0</u>	<u>-146.0</u>	<u>76.0</u>	<u>1,214.5</u>
<u>Investments</u>	<u>122.0</u>	<u>-19.0</u>			<u>103.0</u>
Rocket Propulsion Testing	27.8				27.8
Engineering & Technical Base (ETB)	75.2				75.2
HEDS Technology/Commercialization (HTC)	19.0	-19.0			
<u>Institutional Support</u>	<u>1,181.5</u>		<u>-146.0</u>	<u>76.0</u>	<u>1,111.5</u>
<u>SPACE OPERATIONS (SOMO)</u>	<u>482.2</u>				<u>482.2</u>
TDRS Replenishment	125.5		-8.0		117.5
SOMO Services Upgrades	62.4		-37.0		25.4
Operations	258.9		59.9		318.8
SOMO Technology Activities	35.4		-14.9		20.5

<u>PROGRAM DETAIL (continued)</u>	<u>NASA Request</u>	<u>Appropriation Changes*</u>	<u>NASA Changes</u>	<u>Emergency Supplemental**</u>	<u>Initial Op Plan</u>
SAFETY, MISSION ASSURANCE & ENG'G	47.8		-0.2		47.6
Safety and Mission Assurance	28.7		-0.2		28.5
Engineering	19.1				19.1
<u>SCIENCE, AERONAUTICS & TECH</u>	<u>7,191.7</u>	<u>665.4</u>	<u>158.2</u>	<u>32.5</u>	<u>8,047.9</u>
SPACE SCIENCE	2,786.4	62.6	10.7	7.4	2,867.1
<u>Major Development Programs</u>	<u>414.6</u>		<u>32.3</u>		<u>446.9</u>
GP-B	40.2		5.9		46.1
HST	161.8		10.2		172.0
SOFIA	37.0		1.0		38.0
SIRTF	105.9		7.1		113.0
STEREO	50.3		2.6		52.9
GLAST	19.4		1.3		20.7
Payloads Program	44.8		2.7		47.5
Explorer Program	155.0		-29.8		125.2
Mars Surveyor Program	430.9		-16.2		414.7
Discovery Program	217.1		-2.5		214.6
Operating Missions	105.3		69.5		174.8
Technology Programs	478.8	56.0	-72.3		462.5
Research Programs	606.5	6.6	11.2		624.3
<u>Institutional Support</u>	<u>333.4</u>		<u>15.9</u>	<u>7.4</u>	<u>356.7</u>

<u>PROGRAM DETAIL (continued)</u>	<u>NASA Request</u>	<u>Appropriation Changes*</u>	<u>NASA Changes</u>	<u>Emergency Supplemental**</u>	<u>Initial Op Plan</u>
BIOLOGICAL & PHYSICAL RESEARCH	360.9	357.5	97.2	4.5	820.0
<u>ISS Flight Research Capabilities</u>	<u>0.0</u>	<u>338.6</u>	<u>32.7</u>	<u>0.0</u>	<u>371.3</u>
<u>BPR Research & Technology</u>	<u>291.3</u>	<u>18.9</u>	<u>-32.3</u>		<u>277.9</u>
Advanced Human Support Technology	31.1	1.0	-5.8		26.3
Biomedical Research & Countermeasures	66.8	10.7	-8.1		69.4
Fundamental Space Biology	39.2	0.4	-4.3		35.3
Physical Sciences Research	130.1	1.8	-11.8		120.0
Space Product Development	14.5	5.0	-2.8		16.8
Health Research	9.4		-3.3		6.1
Mission Integration	0.2				0.2
Agency Health & Medical Care			3.9		3.9
<u>Institutional Support</u>	<u>69.6</u>		<u>96.8</u>	<u>4.5</u>	<u>170.9</u>
EARTH SCIENCE	1,515.0	62.1	44.1	4.5	1,625.7
<u>Earth Observing System Program</u>	<u>371.9</u>	<u>-17.2</u>	<u>30.7</u>		<u>385.4</u>
Terra Project	2.4				2.4
Aqua Project	14.5		30.6		45.1
Aura Project	80.6		-10.2		70.4
Special Spacecraft Projects	56.4		14.6		71.0
EOS Follow-on Projects	129.6	-17.2	-2.8		109.6
Algorithm Development	83.4				83.4
QuikSCAT Project	3.3		-1.5		1.8
LANDSAT Project	1.7				1.7
<u>EOSDIS Project</u>	<u>252.7</u>	<u>36.0</u>	<u>4.3</u>		<u>293.0</u>

<u>PROGRAM DETAIL (continued)</u>	<u>NASA Request</u>	<u>Appropriation Changes*</u>	<u>NASA Changes</u>	<u>Emergency Supplemental**</u>	<u>Initial Op Plan</u>
<u>Earth Explorers</u>	<u>84.5</u>	<u>1.0</u>	<u>-11.3</u>		<u>74.2</u>
TOMS Project					
Earth Sys Science Pathfinders	84.0		-13.1		70.9
Experiments of Opportunity	0.5		1.8		2.3
Triana Project		1.0			1.0
<u>Operating Missions</u>	<u>52.3</u>				<u>47.6</u>
UARS Operating Mission	<u>4.0</u>		<u>-4.7</u>		<u>2.9</u>
TOPEX Operating Mission	6.6		-1.1		6.6
TOMS Operating Mission	6.5		0.1		5.0
TRMM Operating Mission	15.6		-1.5		13.8
Earth Sciences Minor Missions	19.6		-1.8		19.3
<u>Research & Technology</u>	<u>516.6</u>		<u>-21.8</u>		<u>537.2</u>
<u>Research & Analysis - Science</u>	<u>357.4</u>	<u>5.0</u>	<u>-21.8</u>		<u>340.6</u>
Mission Science Teams - Research	94.6				94.6
Airborne Science & Applications	23.0				23.0
Uncrewed Aerial Vehicles (UAV)	4.0				4.0
Research And Analysis	167.9	5.0	-16.8		156.1
Information Systems	13.6				13.6
EOS Science	54.3		-5.0		49.3
<u>Applications, Education And Outreach</u>	<u>63.2</u>	<u>31.6</u>			<u>94.8</u>
R&A - Applications	45.7	31.6			77.3
Education	16.5				16.5
Outreach	1.0				1.0
<u>Technology Infusion (New Millennium)</u>	<u>96.0</u>	<u>5.8</u>			<u>101.8</u>
Technology Infusion	74.2	5.8			80.0
High Performance Computing & Communications	21.8				21.8
<u>Institutional Support</u>	<u>237.0</u>		<u>46.9</u>	<u>4.5</u>	<u>288.4</u>

<u>PROGRAM DETAIL (continued)</u>	<u>NASA Request</u>	<u>Appropriation Changes*</u>	<u>NASA Changes</u>	<u>Emergency Supplemental**</u>	<u>Initial Op Plan</u>
AEROSPACE TECHNOLOGY	2,375.7	109.6	6.3	16.1	2,507.7
<u>Aerospace Focused Program</u>	<u>720.6</u>	<u>12.3</u>			<u>732.9</u>
Aviation System Capacity (ASC)	100.6	-6.2			94.4
Aviation Safety Technology	70.0	16.0			86.0
Ultra-Efficient Engine Technology (UEET)	40.0	10.0			50.0
Small Aircraft Transportation System (SATS)	15.0	0.5			15.5
Quiet Aircraft Technology	20.0				20.0
2 nd Generation RLV (includes X-37/Pathfinder)	475.0	-8.0			467.0
<u>Aerospace Base</u>	<u>637.0</u>	<u>71.8</u>	<u>-0.0</u>		<u>721.2</u>
<u>Commercial Technology Programs</u>	<u>146.9</u>	<u>13.1</u>	<u>3.8</u>		<u>163.8</u>
<u>Institutional Support</u>	<u>871.2</u>		<u>2.5</u>	<u>16.1</u>	<u>889.8</u>
ACADEMIC PROGRAMS	153.7	73.6			227.3
Education	71.6	71.0			142.6
Minority University Research & Education	82.1	2.6			84.7
<u>INSPECTOR GENERAL</u>	<u>23.7</u>				<u>23.7</u>
TOTAL NASA	14,511.4	281.8		108.5	14,901.7

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